

# Concerning Compact Discs



Only compact discs bearing this mark can be used with this unit.

However, continued use of irregular shaped CDs can damage the unit.



## How to remove a disc from its case



## How to store the disc in its case



## How to hold a disc



## If the surface is dirty

Wipe it with a damp cloth and then wipe dry.

Wipe from the center toward the outer circumference.

Play surface  
(shiny surface)



## Handling precautions

- If you are taking the CD from a cold to a warm environment, moisture may form on the CD. Wipe this off with a soft, dry, lint-free cloth before using the CD.
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to CDs. (Do not use CDs with exposed adhesive from tape or left over peeled off stickers.)

- Do not use scratch-proof protectors etc.

## Storage precautions

Be sure to store CDs in their cases to protect them from dust, scratches, and warping.

## Do not place or store CDs in the following places

- Locations exposed to direct sunlight
- Humid or dusty locations
- Locations directly exposed to a heat vent or heating appliance
- In the glove compartment or on the rear deck of an automobile

# Portable CD player

Panasonic

## Dear Customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully.

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.

MODEL NUMBER \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

## Operating Instructions

Model No.

**SL-CT485**  
**SL-CT480**



COMPACT  
DIGITAL AUDIO

SL-CT485 model only for U.S.A.

## Supplied Accessories

Check the packing carton for these accessories.

### For U.S.A.

Stereo headphones . . . 1

SL-CT480 (RFEV715P-KS)

SL-CT485

Wired remote control (N2QCB000010)

Beltclip . . . . .

(RYQ0350-K)

Adaptor . . . . .

(RFA1631-H)

"AA" (LR6) batteries . . . 2

"AAA" (LR03) batteries 2

### For Canada

Stereo earphones . . . . 1

(LOBAB0000166)

Adaptor . . . . . 1

(RFA1631-H)

Use numbers indicated in parentheses when asking for replacement parts.  
(Only for U.S.A.) To order accessories contact 1-800-332-5368 or web site (<http://www.panasonic.com>).

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

P PC

En

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# Precautions

Before using this unit, be sure to read the applicable items of the operating instructions and these safety suggestions carefully.

Afterwards keep them handy for future reference. Take special care to follow the warnings indicated on the unit itself as well as in the operating instructions.

## Safety

1. **Power Source**—The unit should be connected to power supply only of the type described in the operating instructions or as marked on the unit. Use only the AC adaptor or car adaptor described in the operating instructions when recharging.
2. **Polarization**—If the unit is equipped with a polarized AC power plug (a plug having one blade wider than the other), that plug will fit into the AC outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
3. **Care of AC adaptor**—Take care that the cord of the AC adaptor should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Never take hold of the AC adaptor if your hand is wet, and always grasp the plug body when connecting or disconnecting it.
4. **Nonuse Periods**—When not in use, be sure to disconnect the AC adaptor from the AC power outlet.
5. **Batteries**—If the set is not used for a long period of time or is used only from an AC power source, remove all the batteries to prevent potential damage due to possible battery leakage. Do not mix batteries (old and new) or different types of batteries.

## Installation

### ■ Environment

1. **Water and Moisture**—Do not use this unit near water—for example, near a bathtub, washbowl, swimming pool, or the like. Damp basements should also be avoided.

2. **Condensation**—Moisture may form on the lens in the following conditions...

- immediately after a heater has been turned on.
- in a steamy or very humid room.

- when the unit is suddenly moved from a cold environment to a warm one. If moisture forms inside this unit, it may not operate properly. To correct this problem wait about one hour for the moisture to evaporate.

3. **Heat**—Never use or place this unit near a heat source. Do not leave it in an automobile exposed to direct sunlight for a long time with the doors and windows closed as this may deform the cabinet.

### ■ Placement

1. **Foreign Material**—Care should be taken so that objects do not fall into and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration, or shock.

2. **Magnetism**—The unit should be situated away from equipment or devices that generate strong magnetic fields.

3. **Stacking**—Do not place any objects, on top of the unit.

4. **Wall or Ceiling Mounting**—The unit should not be mounted to a wall or ceiling, unless specified in this operating instructions.

## Maintenance

(See page 5 for details.)

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

## Service

1. **Damage Requiring Service**—The unit should be serviced by qualified service personnel when:
  - (a) The AC adaptor is damaged; or
  - (b) Objects have fallen or liquid has been spilled into the unit; or
  - (c) The unit has been exposed to rain; or
  - (d) The unit does not appear to operate normally or exhibits a marked change in performance; or
  - (e) The unit has been dropped, or the enclosure damaged.

2. **Servicing**—The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to an authorized service personnel.

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail [consumerproducts@panasonic.com](mailto:consumerproducts@panasonic.com), or web site (<http://www.panasonic.com>).

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 905-624-5505, or web site ([www.panasonic.ca](http://www.panasonic.ca)), or an authorized Servicentre nearest you.

SL-CT480 : indicates a feature which can be enjoyed with SL-CT480 only.

SL-CT485 : SL-CT485 only



This manual was printed with soy based ink.

# Power Supply Preparations

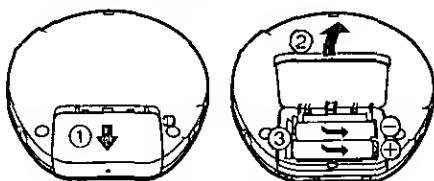
Refer to the specifications (page 8) for information on operating times when using rechargeable batteries or dry cell batteries

## Using the dry cell batteries

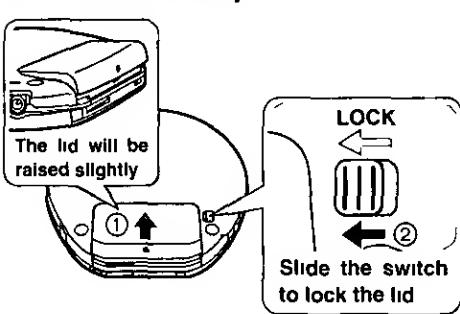
Insert two "AA" (LR6) alkaline batteries or two "AAA" (LR03) using the supplied adaptor

### When using "AA"(LR6) batteries

#### 1 Insert the batteries

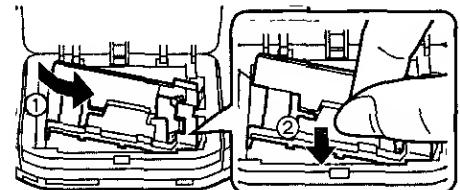


#### 2 Close the battery lid



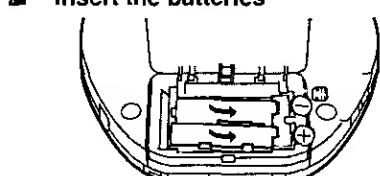
### When using "AAA"(LR03) batteries

#### 1 Insert the adaptor

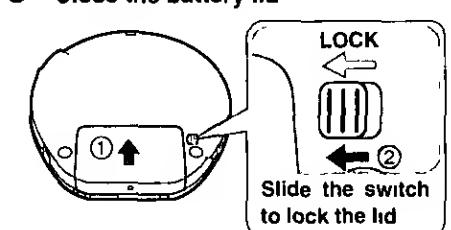


Reverse the above procedure to remove the adaptor

#### 2 Insert the batteries



#### 3 Close the battery lid



##### Note

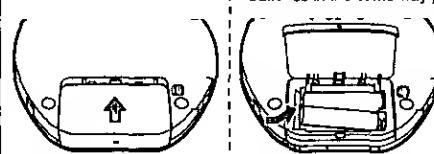
- Turn the unit off before replacing the dry cell batteries

#### If the battery lid comes loose

Slide the lid back into place horizontally

#### Removing batteries

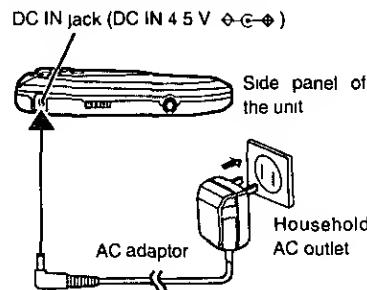
Push up on the battery in the direction indicated by the arrow. Then lift it out (Remove "AAA" (LR03) batteries in the same way)



## Using the AC adaptor (not included)

Obtain the optional AC adaptor RP AC46

#### 1 Connect the AC adaptor



#### Conserving power

To save power when the unit is not to be used for a long time, unplug the AC adaptor from the household AC outlet. Reprogram tracks if necessary before use

##### Note

- Turn the unit off before connecting or disconnecting the AC adaptor

## Using the rechargeable batteries (not included)

Recharge the batteries before use  
Use either "AA" batteries or, by inserting the supplied adaptor, "AAA" batteries. This unit cannot recharge batteries other than those especially designed for it.  
Obtain the optional rechargeable batteries  
"AA" rechargeable Ni-Cd batteries P-3GAVA/2B  
"AAA" Nickel-metal hydride rechargeable batteries HHR-4AHA/2B

#### Charging procedure

#### 1 Insert the rechargeable batteries (Refer to "Using the dry cell batteries")

#### 2 Connect the AC adaptor

(Refer to "Using the AC adaptor")  
Recharging starts and the "CH" charging indicator flashes on the unit's display. The indicator goes out when charging is complete

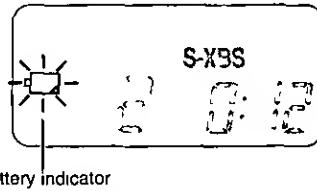
#### 3 When charging is complete, unplug the AC adaptor from the household AC outlet and DC IN jack

- Never mix dry cell and rechargeable batteries
- Turn the unit off before replacing the rechargeable batteries

##### Note

- Rechargeable batteries have a service life of approximately 300 charge-discharge cycles. The batteries have reached the end of their operational life if they last for a noticeably shorter time after recharging, or if they cannot be recharged at all. Replace the batteries.
- Recharging may only be performed when the unit is powered off.
- The AC adaptor and rechargeable batteries may become warm while recharging is in progress. This is not a malfunction.
- Leaving the AC adaptor connected can cause the batteries to go flat. After recharging the batteries and disconnecting the AC adaptor from the AC power outlet, ensure you disconnect the AC adaptor from the unit's [DC IN 4.5V] terminal.

## When the battery indicator flashes



This indicator flashes when the batteries are almost out of power. Power is cut off completely a short while later.  
**Rechargeable batteries** Recharge batteries  
**Dry-cell batteries** Replace batteries with new ones

##### Note

- The length of time the unit will continue to operate between when the battery indicator starts flashing and when the power is cut off differs depending on the type of batteries used.
- The battery indicator may not be displayed if rechargeable batteries other than those designated by Panasonic are used.

## Using the car adaptor (not included)

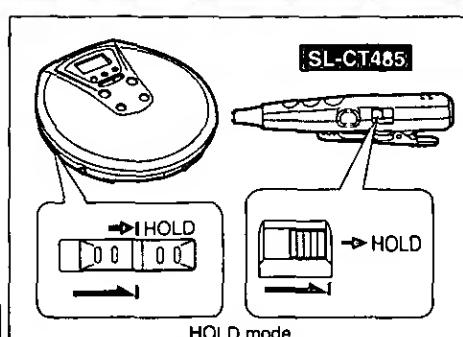
Be sure to obtain the car adaptor (SH-CDC9), available as an optional accessory.  
The car adaptor can be used to recharge the unit's batteries while in the car.

## CAUTION:

Use only car adaptor, Model SH-CDC9 manufactured by Matsushita Electric Industrial Co., Ltd.

If the unit malfunctions or freezes during use, disconnect the power sources (the AC adaptor or batteries). Re-connect the power source and continue operation

## HOLD function



This function causes the unit to ignore short, accidental button presses. (The disc lid can still be opened and closed.)

#### The HOLD function prevents the following

- The unit is powered on accidentally when not in use, causing the batteries to run down.
- A button is accidentally pressed during play, interrupting the operation.

#### To use the HOLD function

Set [HOLD] to the HOLD position

**SL-CT485**

The unit and wired remote control have HOLD functions, each of which works independently.

## "*hold*" indication

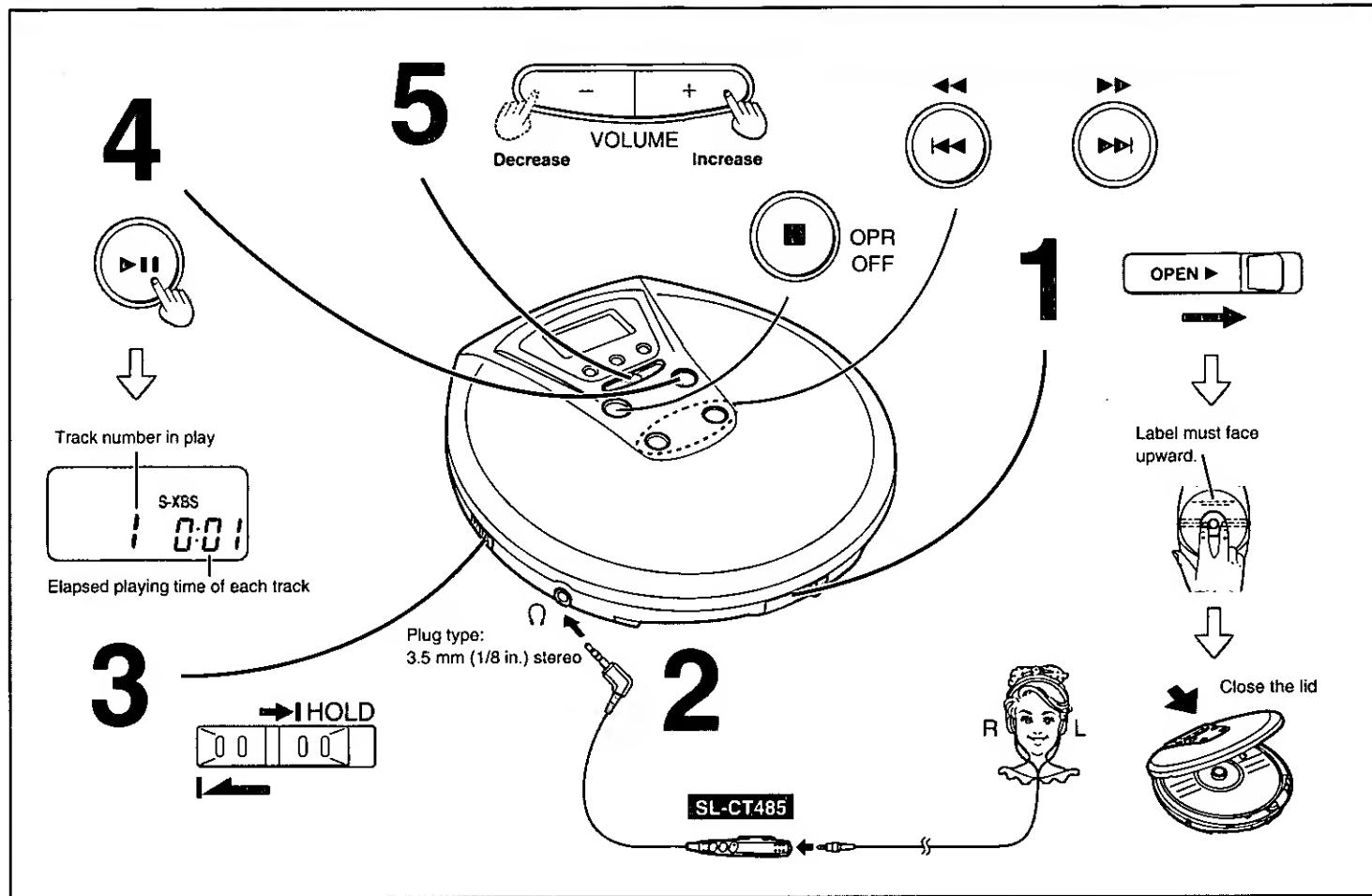
When the main unit is in HOLD mode, pressing any button causes the indication "*hold*" to appear on the display.

#### When the unit is powered off

The "*hold*" indication appears only when [ $\blacktriangleright \blacksquare$ ] (main unit) is pressed.

#### Before operating the buttons

Be sure to move [HOLD] to release the unit from the HOLD mode.

**Follow steps 1–5.**

In step 2: Connect the stereo headphones/earphones and wired remote control (SL-CT485) to the headphone jack [Q]. (Plug in firmly.)

In step 5: The volume range is 0–25. Press and hold to change the volume successively. The volume changes when pressed while the level is displayed. If any other display is shown, it changes to show the current level. (The volume returns to 10 when you disconnect the power source.)

• Play stops automatically when all the tracks have been played.

• If the unit has been connected to the car audio system, set this unit's volume to 10, then adjust the volume level on the system.

Operation	Button	Display/reference
To pause play	Press during play. 	Press again to restart play.
To stop play Stop mode	Press during play. 	Total number of tracks Total playing time
To turn off the unit Off mode	Press during stop mode. 	
Skipping tracks	Press during play. (Press [ $\blacktriangleleft$ ] twice to skip to the beginning of the previous track.)	<ul style="list-style-type: none"> <li>During program play (page 4), these buttons are used to skip forward or backward through the programmed sequence of tracks.</li> <li>You cannot skip to tracks that have been played in random or random repeat play (page 4).</li> <li>During program play, 1-track repeat play, random play and random repeat play (page 4), search operation is limited to the current track only.</li> </ul>
Searching through tracks	Backward  Forward  Press and hold during play.	

**For your reference:****"no disc" indication**

This indication appears for about 30 seconds if [ $\blacktriangleright\blacktriangleright$ ] (main unit) or [ $\blacksquare\blacktriangleright$ ] (remote control) is pressed when no disc is loaded in the unit or if the disc is not properly secured.

**"OP ER" indication**

This indication appears for about 10 minutes when the lid is opened. (However, the indication does not appear when the unit is powered off.)

**Resume function**

The player stores the track where you stopped play and if you press [ $\blacktriangleright\blacktriangleright$ ] (main unit) or [ $\blacksquare\blacktriangleright$ ] (remote control), play resumes from the beginning of the track.

The resume function is canceled (play starts from the first track) if you open the lid when the unit is in stop mode. It is also usually canceled when you replace the CD while the unit is off.

**Note**

- The resume function may work if you replace the CD while the unit is off.
- If you turned the unit off near the end of the track, play may resume from the beginning of the next track.
- The resume function works automatically and cannot be turned off.

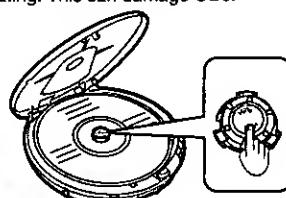
**Removing discs**

1 Press [ $\blacksquare$ , OPR OFF] to stop play and disc rotation.

2 Slide [OPEN  $\blacktriangleright$ ] to open the lid.

3 Press [PUSH] to release the disc.

Do not stop the disc by hand or try to remove it before it stops rotating. This can damage CDs.

**Note**

Never insert foreign objects into the unit.

**Auto power off function**

If the unit is left in stop mode for approximately 10 minutes, the unit powers itself off automatically in order to prevent the batteries from running down.

(If no disc is loaded in the unit it powers itself off in about 30 seconds.)

**Note on CD-R and CD-RW**

This unit can play CD-DA format audio CD-R and CD-RW that have been finalized\* upon completion of recording. It may not be able to play some CD-R or CD-RW due to the condition of the recording.

\*Finalizing is a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

# Other Play Methods

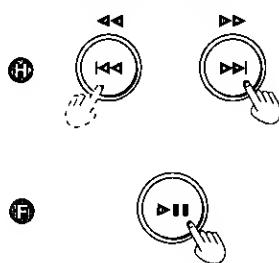
The letters such as **A** in the various illustrations refer to the descriptions in the "Location of Controls" section.

## Skip play

The disc plays from the specified track through to the end, then play stops automatically

Preparation Put unit in stop mode

### 1 Select the desired track.

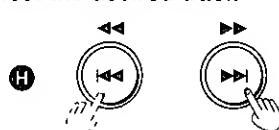


## Program play

Up to 24 tracks can be entered in the programmed sequence

Preparation Put unit in stop mode

### 1 Select the desired track



### 2 Register in sequence

(The indication 'M' and the programmed sequence appear on the display)

MEMORY/RECALL



### 3 Repeat steps 1 and 2 to program all the desired tracks

### 4



### To program the same track in the sequence more than once

After step 2, press [MEMORY/RECALL] the desired number of times

### If "P" is displayed

No more tracks can be programmed

- To confirm the contents of the program  
Press [MEMORY/RECALL] while the disc is playing  
(The number of the programmed tracks appear on the display in sequence)

- To delete the entire programmed sequence  
Press [**E**,OPR OFF]

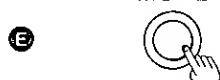
### Note

The repeat and random play modes are canceled after steps 1 and 2

## Repeat play/Random play

Press during play or stop mode

MODE



The setting is switched in the sequence indicated below each time [MODE] is pressed

- 1-track repeat (1 )  
One track is repeated

- All-track repeat ( )  
All the tracks on the disc are repeated

- Random (RANDOM)  
The tracks play once each in random order and then play stops

- Random repeat (RANDOM, )  
The tracks play repeatedly in random order

- Cancel (no indicator is shown)

### When pressed during program play

The setting is switched in the sequence indicated below each time [MODE] is pressed

- 1-track repeat (1 M)  
One track is repeated

- Memory repeat ( M)  
The programmed tracks are repeated

- Cancel (M)

### Note

- You can select the first track to play in random play and random repeat play by pressing [] while the disc is stopped. All the tracks are played

- You cannot select random play or random repeat play during program play

- The mode is canceled when you disconnect the power source

## Changing the sound quality

Press during play or stop mode

Main unit

EQ



Remote control

SL-CT485

EQ



(Beep)

The setting switches in the sequence indicated below each time [EQ] is pressed

S-XBS → TRAIN → Cancel (no indicator is shown)

### S-XBS

Select this setting to boost the low range response

### TRAIN

Select this setting to avoid annoying other passengers with noise from your headphones/earphones while riding on the train, or to reduce fatigue when listening for a long period of time

### Note

The setting returns to S-XBS when you disconnect the power source

## Anti-Skip System

This system deals with skipping in a variety of ways

- The thinner and lighter construction makes the unit less susceptible to vibration
- An anti-skip mechanism prevents skipping caused when play speed changes due to swinging of the unit
- A recovery system immediately returns the laser pickup to its original position if it is knocked off the track by a strong shock
- The 40-second anti skip memory fills in interruptions caused by bumps and vibrations

The anti-skip system works automatically while the system is on and cannot be canceled

### When bumps continue repeatedly

The message 'SORRY' appears on the display and sound is interrupted

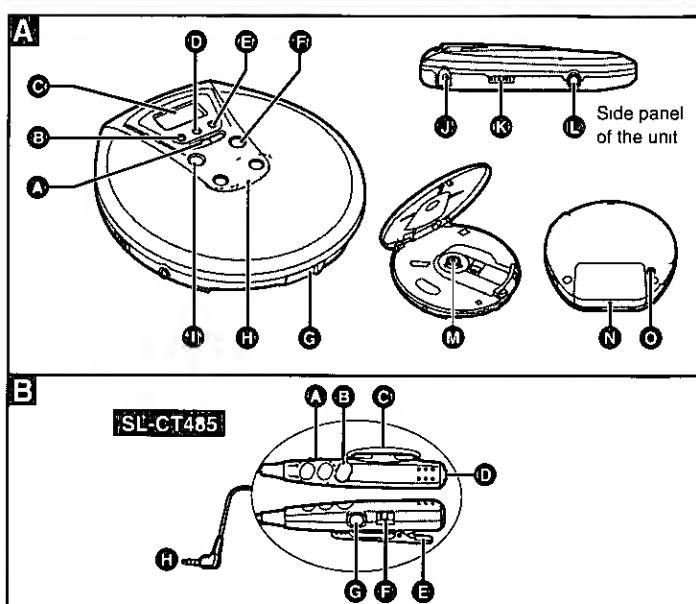


SORRY S-XBS

### Note

The anti-skip memory compresses digital signals

## Location of Controls



## Portable CD player **A**

- A** Headphone volume control buttons (−,VOLUME,+)
- B** Memory/recall button (MEMORY/RECALL)
- C** Display
- D** EQ button (EQ)
- E** Mode button (MODE)
- F** Play/pause button (▷ II)
- G** Open switch (OPEN▷)
- H** Skip/search buttons (◀◀, ▶▶, ▲▲, ▼▼)
- I** Stop/operation off button (■, OPR OFF)
- J** DC IN jack (DC IN 4.5 V  $\ominus$  G  $\oplus$  )
- K** Hold switch (HOLD)
- L** Headphone jack (Ω)
- M** CD release button (PUSH)
- N** Hole for car mounting base
- O** Battery lid lock (LOCK)

## Wired remote control **B**

- A** Skip/search buttons (◀◀, ▶▶)
- B** Play/stop/operation off button (■/▷)
- C** Volume control buttons (−, VOL, +)
- D** Earphone jack
- E** Clip
- F** Hold switch (HOLD)
- G** EQ button (EQ)
- H** Plug

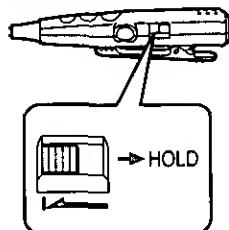
# Using the Wired Remote Control

SL-CT485

The remote control can be operated regardless of the HOLD mode of the unit.

## Preparation:

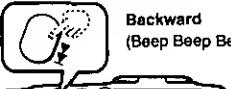
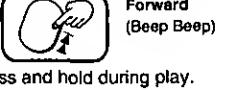
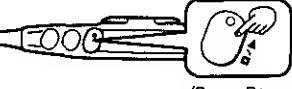
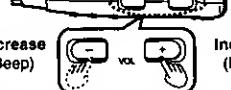
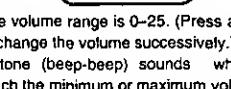
Release the remote control from the HOLD mode.



## Operation confirmation tones

When an operation button is pressed, a confirmation tone sounds. Refer to the parentheses in the illustration for the different types of confirmation tones.

## Basic operation

To start play	Press once during off or stop mode.  (Beep)	Skipping tracks Press during play. (Press [◀◀] twice to skip to the beginning of the previous tracks.)  Backward (Beep Beep Beep)
To stop play	Press once during play.  (Beep...Beep)	Searching through tracks Press and hold during play.  Forward (Beep Beep)
To turn off the unit	Press and hold during play or stop mode.  (Beep...Beep...p)	To adjust the volume Decrease (Beep)  Increase (Beep)  • The volume range is 0–25. (Press and hold to change the volume successively.) • A tone (beep-beep) sounds when you reach the minimum or maximum volume.

## Other operation

### To change sound quality

See page 4.

# Using the Unit with Optional Accessories

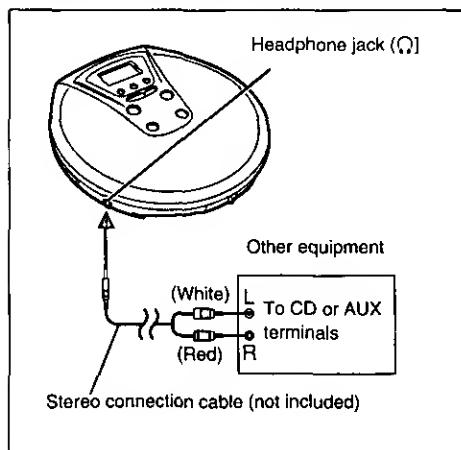
## Using the unit with an audio system

Use stereo connection cable (not included) to listen to CDs through your home audio system.

- Turn off this unit and the other equipment before connection.
- Do not connect the cable to the PHONO jacks on the amplifier.
- Obtain the optional connecting cable if the other equipment comes with mini-phone jacks.
- Set this unit's volume to 10, then adjust the volume on the other equipment.

### Note SL-CT485

- You can connect speakers, active or otherwise, with an impedance of 1 kΩ or less to the headphone jacks.



## Using the unit with a car audio system

### Items to be purchased

#### For connection to the car audio system:

Car stereo cassette adaptor (SH-CDM10A)

Connect the car stereo cassette adaptor to the unit's headphone jack.

(When doing this, set this unit's volume to 10.)

For securing the unit and connecting the power supply:

- Car adaptor (SH-CDC9)
- Car mounting kit (SH-CDF20)

Note when using the car mounting kit (SH-CDF20)

- Remove the screw from the bracket at the rear of the car mounting base.
- Replace the screw in the lower hole of the bracket.

### Note

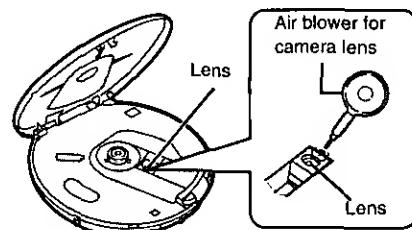
- When you switch off the car, volume and sound quality may return to the original settings and the resume function may work even if you change the disc.
- It may not be possible to use the unit with some types of car stereos owing to restrictions imposed by the construction of the car stereo cassette adaptor.

For further details, refer to the instructions of the part concerned.

## Maintaining the Lens

Open the lid and clean the lens as shown in the figure. Use a cotton swab to gently wipe off any finger-prints.

Recommended product:  
Lens cleaner kit (SZZP1038C)



**ONLY FOR U.S.A.**

**For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:**

**1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST.**

**Web Site: <http://www.panasonic.com>**  
**You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.**

**Accessory Purchases:**

**1-800-332-5368 (Customer Orders Only)**

**Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032**

**(6 am to 5 pm Monday-Friday, 6 am to 10:30 am Saturday, PST)**

**(Visa, MasterCard, Discover Card, American Express, Check)**

<b>Factory Servicenters Locations</b>			
<b>CALIFORNIA</b> 6550 Katella Avenue Cypress, CA 90630	<b>GEORGIA</b> 8655 Roswell Road Suite 100 Atlanta, GA 30350	<b>MICHIGAN</b> 37048 Van Dyke Avenue Sterling Heights, MI 48312	<b>TEXAS</b> 13615 Welch Road Suite 101 Farmers Branch TX 75244
800 Dubuque Avenue S San Francisco CA 94080	<b>ILLINOIS</b> 9060 Golf Road Niles, IL 60714	<b>MINNESOTA</b> 7850-12 <sup>th</sup> Avenue South Airport Business Center Bloomington, MN 55425	<b>WASHINGTON</b> 20425-84 <sup>th</sup> Avenue South Kent, WA 98032
20201 Sherman Way Suite 102 Canoga Park, CA 91306	1703 North Randall Road Elgin, IL 60123 (Pick-up/Drop-off only)	<b>OHIO</b> 2236 Waycross Road Civic Center Plaza Forest Park, OH 45240	
3878 Ruffin Road Suite A San Diego, CA 92123	<b>MARYLAND</b> 62 Mountain Road Glen Burnie, MD 21061	<b>PENNSYLVANIA</b> 2221 Cabot Blvd. West Suite B Langhorne, PA 19047	
<b>COLORADO</b> 1640 South Abilene Street Suite D Aurora, CO 80012	<b>MASSACHUSETTS</b> 60 Glacier Drive Suite G Westwood, MA 02090		<b>HAWAII</b> 99-859 Iwaiwa Street Area, Hawaii 96701 Phone (808) 488-1996 Fax (808) 486-4369
<b>FLORIDA</b> 3700 North 29 <sup>th</sup> Avenue Suite 102 Hollywood, FL 33020			

**Service in Puerto Rico**

**Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/Factory Servicenter:  
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985  
Phone (787) 750-4300. Fax (787) 768-2910**

F04030 As of APR '00

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America One Panasonic Way Secaucus, New Jersey 07094

**Panasonic/Technics Audio Products Limited Warranty**

Panasonic Sales Company Division of Matsushita Electric Corporation of Puerto Rico, Inc.  
Ave. 65 de Infantería, Km. 9.5  
San Gabriel Industrial Park  
Carolina, Puerto Rico 00985

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will repair this product with new or refurbished parts in the event of a defect in materials or workmanship free of charge, in the U.S.A. or Puerto Rico as follows (all time periods start from the date of original purchase)

**AUDIO PRODUCTS**—labor and parts for one (1) year

**ALL AUDIO RACKS** (cabinets)—parts only 30 days

**TECHNICS STAND ALONE SPEAKERS, SUBWOOFER SPEAKERS**—labor and parts for three (3) years

**USB READER WRITER, PERSONAL COMPUTER CARD ADAPTERS**—(when applicable)—exchange defective unit with a new or refurbished one for one (1) year

**ACCESSORIES—HEADPHONES, CARTRIDGES,**

**MICROPHONES, ADAPTERS**—labor and parts for ninety (90) days

**RECHARGEABLE BATTERIES**—(when applicable)—exchange defective item for new one for ten (10) days Non rechargeable batteries are not warranted

**SD MEMORY CARDS, RECHARGEABLE BATTERY PACKS**—(when applicable)—exchange defective item for new one for ninety (90) days Non rechargeable battery packs are not warranted

Carry-in or mail-in service in the U.S.A. can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Servicenter Directory. Or call toll free, 1-800-211-7262 to locate a PASC authorized Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship

which occur during normal use and does not cover normal wear to the stylus (when applicable) or a dealer installed cartridge or stylus. The warranty does not cover damages which occur in shipment or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, faulty installation, misapplication, set up adjustments, maladjustment of consumer controls, improper operation or maintenance, improper antenna, inadequate signal reception or pick-up, alteration, modification, power line surge, improper voltage supply, lightning damage, commercial use such as, hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

**LIMITS AND EXCLUSIONS**

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING WITHOUT LIMITATION DAMAGE TO TAPES, RECORDS OR DISCS. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Department at the company address indicated above.

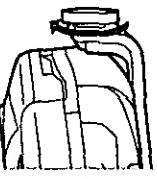
## Attaching the Beltclip SL-CT485

Attach the included beltclip to make it easier to carry while jogging.

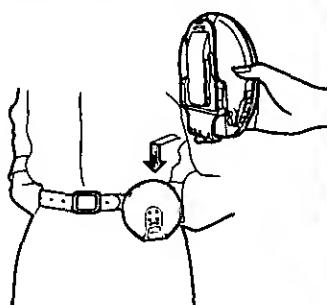
① Insert the flange on the beltclip into the slot on the base of the unit.

② Press the beltclip firmly against the base.

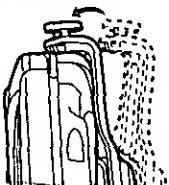
④ Screw in the direction indicated.



⑤ Clip onto your belt.



③ Fit the screw into the hole in the unit.



The product you have purchased is powered by a nickel-cadmium battery which is recyclable. Please call 1-800-8-BATTERY for information on how to recycle this battery.



### CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

### WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

THE FOLLOWING APPLIES ONLY IN THE U.S.A.:

### CAUTION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Product Service

Do not attempt to remove the cover(s) or repair the unit yourself. Refer servicing to qualified personnel only.

### Product information

For product service, product information or assistance with product operation, refer to the servicenter directory.

### If you ship the product

Carefully pack and send it prepaid, adequately insured and preferably in the original carton. Attach a postage-affixed letter, detailing the complaint, to the outside of the carton.

*Do NOT send the product to the Executive or Regional Sales offices. They are NOT equipped to make repairs.*

### Customer's Record

Model No. \_\_\_\_\_

Dealer's Name \_\_\_\_\_

Serial No. \_\_\_\_\_  
or \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Code No. \_\_\_\_\_

Dealer's Address \_\_\_\_\_  
\_\_\_\_\_

Date of Purchase \_\_\_\_\_

\_\_\_\_\_

# Specifications

## Audio

No. of channels : 2 (left and right, stereo)

Frequency response: 20 to 20,000 Hz  
(+0 dB to -7 dB)

DA converter: 1 bit, MASH

Headphone output level: Max. 8 mW+8 mW/  
16 Ω (adjustable)

## Pickup

Light source: Semiconductor laser

Wavelength: 780 nm

## General

Operational temperature range: 0 °C~40 °C  
(32 °F~104 °F)

Rechargeable temperature range: 5 °C~40 °C  
(41 °F~104 °F)

Power supply: DC 4.5 V with optional AC adaptor RP-AC46

**Play time:**  
[When used in hold mode with EQ canceled, at 25 °C (77 °F), on a flat, stable surface].

Batteries used	Play time
2 "AAA" (LR03) alkaline batteries	About 14 hours
2 "AA" (LR6) alkaline batteries	About 35 hours
2 rechargeable Ni-Cd batteries (P-3GAVA/2B)	About 15 hours
2 nickel-metal hydride rechargeable batteries (HHR-4AHA/2B)	About 9 hours

- Rechargeable batteries are optional.
- The play time may be less depending on the operating conditions.
- Play time will be considerably reduced when playing CD-RW.

### Recharging time

P-3GAVA/2B About 5 hours  
HHR-4AHA/2B About 5 hours

### Dimensions (W×H×D):

131×21.7 (27.0 with AA batteries)×135.7 mm

5½"×7½" (1⅓")×5⅓"

Mass: 172.5 g (6.1 oz.) (with AAA batteries)

196.3 g (6.9 oz.) (with AA batteries)

150.0 g (5.3 oz.) (without batteries)

### Note:

Specifications are subject to change without notice.

Mass and dimensions are approximate.

# Troubleshooting Guide

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, contact below.

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (<http://www.panasonic.com>).

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 905-624-5505, or web site ([www.panasonic.ca](http://www.panasonic.ca)), or an authorized Servicentre nearest you.

Problem	Check this
Cannot close the lid.	Is the disc properly secured in place?
Cannot play discs.	<ul style="list-style-type: none"> <li>• Is the unit in HOLD mode?</li> <li>• Is the disc properly secured in place?</li> <li>• Is there moisture condensation on the lens? (Wait for about an hour and then try again.)</li> <li>• Is the disc dirty or scratched?</li> </ul>
Tracks on disc do not play in order, starting with the first track.	<ul style="list-style-type: none"> <li>• Is the random play mode on?</li> <li>• Did you stop play in the middle of the disc last time?</li> </ul>
Cannot hear music—too noisy.	<ul style="list-style-type: none"> <li>• Have the headphone/earphone and wired remote control (SL-CT485) plugs been inserted firmly?</li> <li>• Are the plugs dirty? (Wipe away dirt on plug.)</li> <li>• Separate the unit from mobile phones.</li> </ul>
TV picture is distorted. Radio reception is noisy.	Are you using the unit too near a TV or tuner? (Keep the unit away from the TV or tuner.)
Cannot close battery lid.	The lid is raised slightly when using "AA" batteries.

# Cautions

## Listening caution



Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.

If you experience a ringing in your ears, reduce volume or discontinue use.

Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.

You should use extreme caution or temporarily discontinue use in potentially hazardous situations.

Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.

Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Leave it there.

## Selection and care of rechargeable /dry cell batteries

### ■ Selection

As a safety precaution, the portable CD players made by Panasonic are constructed so it is impossible to recharge ordinary batteries. Only batteries especially designed for this unit can be recharged.

• Special nickel-metal hydride rechargeable batteries:  
**HHR-4AHA/2B (set of 2)**

• Special rechargeable Ni-Cd batteries:  
**P-3GAVA/2B (set of 2)**

For details, check with your dealer.

Special rechargeable batteries

Ordinary dry cell batteries/rechargeable batteries



• If rechargeable battery play time is short after recharging, the batteries have reached the end of their service life. Replace them with the recommended replacements.

• Play time may be shorter than usual after recharging batteries for the first time or after they have been unused for a long time. Repeatedly recharge and discharge the batteries if this occurs to restore them to normal.

### ■ Care

To prevent battery damage, electrolyte leakage and short-circuiting, heed the following points.

• Do not peel off the covering on batteries and do not use if the covering has been peeled off.

• Align the poles + and - correctly when inserting the batteries.

• Do not mix different types of batteries or old and new batteries.

• Remove the batteries if you do not intend to use the unit for a long time.

• Do not throw into fire, short-circuit, disassemble, or subject to excessive heat.

• Do not attempt to recharge dry cell batteries.

• Do not allow metal objects to touch the battery terminals as this may cause short-circuiting which is dangerous.

• When carrying batteries in a pocket or bag, ensure no metal objects such as necklaces are placed together with them. Contact with metal may cause short-circuiting which can cause a fire. For safety, carry the batteries in the battery carrying case.

## When driving a car

In the interest of traffic safety, do not operate the unit while driving.

Discontinue use if you experience discomfort with the headphones/earphones or any other parts that directly contact your skin. Continued use may cause rashes or other allergic reactions.